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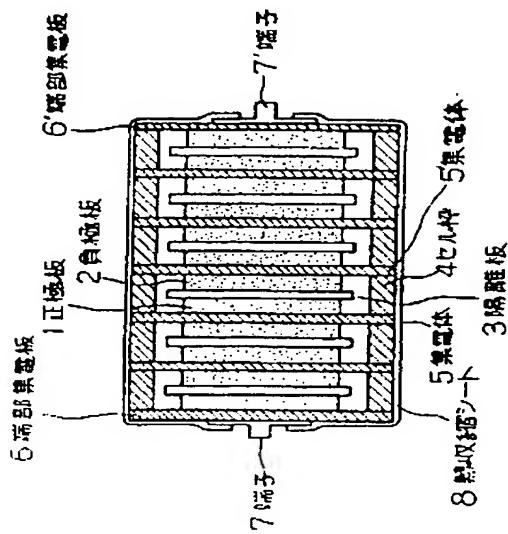
APPLICATION DATE : 29-01-88  
APPLICATION NUMBER : 63019181

APPLICANT : SHIN KOBE ELECTRIC MACH CO LTD;

INVENTOR : KONUKI TOSHIAKI;

INT.CL. : H01M 10/12

TITLE : CELL



ABSTRACT : PURPOSE: To attain the high-current charge and discharge and obtain a high- voltage assembly cell at a relatively low cost by using heat adhesive foaming resin for the material to attain functions of a frame and a gasket.

CONSTITUTION: A cell frame 4 covering the periphery of positive electrode plates 1, negative electrode plates 2 and separators 3 is made of heat adhesive foaming resin, it is expanded to bury gaps between current collectors 5 and 5' by the heat treatment at the time of assembling and stuck to the current collectors 5 and 5'. The current collectors 5 and 5' are fixed at positions in contact with the positive electrode plates 1 and the negative electrode plates 2, a laminated cell is constituted when element cells are repeatedly constituted. One-side faces of end current collectors 6 and 6' at ends of the laminated cell are in contact with terminals 7 and 7', but other current collectors are bipolar plates. When the whole is covered with a heat contraction sheet 8 after an electrolyte is injected, a nearly fully sealed cell is completed. The high-current charge and discharge are attained, thereby an assembly cell with high voltage is obtained at a relatively low cost.

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